

Call for Papers: Advances in Applied Geometry

A Special Issue of Computer Aided Geometric Design

Guest Editors: Bert Jüttler, Miroslav Lávička, Otto Röschel

Submission Deadline: October 31st, 2009

Background and Scope. Techniques from classical geometry have helped to advance the state of the art in applied geometry, in particular in Computer Aided Geometric Design. The wealth of knowledge, which is available in classical differential, algebraic and descriptive geometry, provides many useful results for various geometric applications, ranging from geometric modeling to numerical simulation for industrial design.

This special issue is devoted to new results which are based on the interaction of classical geometry with computational methods, such as spline techniques or numerical simulation. In particular, it will contain papers which were presented at the

Conference on Geometry: Theory and Applications (Plzeň, Czech Republic, 2009).

This conference is devoted to the memory of Professor Josef Hoschek, who was born in Litice/Littitz (now a part of Plzeň) in 1935.

Additional submissions are also welcome.

Topics include, but are not limited to,

- Applications of real algebraic geometry and symbolic computation,
- Concepts of classical differential geometry for geometric modeling,
- Spline theory and applications,
- Kinematical Geometry and Robotics,
- Isogeometric Analysis

Submission. Please use the electronic submission system at

<http://ees.elsevier.com/cagd>

and indicate that you wish to submit your paper to the special issue.

Contact

- Bert Jüttler, Johannes Kepler University, Linz, Austria,
<http://www.ag.jku.at>, bert.juettler@jku.at
- Otto Röschel, Graz University of Technology, Austria,
<http://www.geometrie.tugraz.at>, roeschel@tugraz.at
- Miroslav Lávička, University of West Bohemia, Plzeň, Czech Republic,
<http://www.kma.zcu.cz>, lavicka@kma.zcu.cz